



BASIC SELF-PRIMING CENTRIFUGAL PUMP

Model: V3A60-B

Various Patents Apply

Pump Specifications

Size	4" x 3" (102 mm x 76 mm) **
Impeller Type	Semi-Open, Two Vane
Solids-Handling Capability	2 1/2" (63,5 mm) Spherical Diameter
Seal Type	Cartridge Type, Mechanical, Oil-Lubricated, Double Floating, Self-Aligning
Radial Bearing	Open Single Row Ball
Thrust Bearing	Open Double Row Ball
Bearing and Seal Cavity Lubrication	SAE 30 Non-Detergent Oil
Maximum Operating Pressure	120 psi (827 kPa)*
Max Temp of Liquid Pumped	160°F (71°C).*
Oil Level Sight Gauges	Bearing and Seal

Pump Materials

Casing	Gray Iron 30
Impeller	Ductile Iron 65-45-12
Impeller Shaft	Stainless Steel 17-4 PH
Shaft Sleeve	Alloy Steel 4130
Seal: Stationary Face	Silicon Carbide
Rotating Face	Silicon Carbide
Elastomer	Fluorocarbon FKM, (Viton® or Equivalent)
Replaceable Wear Plate:	Carbon Steel 1015
Removable Adjustable Cover Plate	Gray Iron 30
Removable Inspection Cover Plate	Gray Iron 30 – 12 lbs. (5,4 kg.)
Externally Removeable Flap Valve	Neoprene with Nylon and Steel Reinforcing
Seal Plate	Gray Iron 30
Bearing Housing	Gray Iron 30
Suction Flange/Flap Valve Seat	Gray Iron 30
Gaskets	Buna-N, Compressed Synthetic Fibers, Vegetable Fiber, PTFE, Cork and Rubber
O-Rings	Buna-N
Hardware	Standard Plated Steel
Pressure Relief Valve	Brass

**Consult Factory for Applications Exceeding Maximum Pressure and/or Temperature Indicated.*

Optional Equipment: Automatic Air Release Valve. High Pump Temperature Shutdown Kit. Stainless Steel/G-R Hard Iron Impeller, Seal Plate and Wear Plate. Cartridge Seal w/Stainless Steel Sleeve. 120/240 Volt Casing Heater.

**** Optional Gray Iron 30 Flanges Available as Follows (See Price Sheets):**
3" Female NPT Discharge Flange Kit, 4" and 3" ASA Suction/Discharge Spool Flange Kits, 100 mm and 80 mm DIN 2527 (PN 16) Suction/Discharge Spool Flange Kits.



ULTRA V FEATURES AND BENEFITS

Easy To Service And Maintain - Pump is mounted above liquid being pumped with only the suction line down in liquid.

Dual Bearing Protection - An atmospheric barrier along with two lip seals provide additional protection of the pump bearings. This unique design also allows for quick and easy external monitoring of the bearing cavity.

Inspection Cover - Patented, lightweight inspection cover for easy access to the impeller without removing the entire backcover plate or piping.

5 Year Ultra V Series Warranty

Up To 3" Diameter Spherical Solids Handling (2.50" dia solids on V3A and V3C models).

Removable Rotating Assembly - The entire rotating assembly can be removed without disturbing the pump volute or piping allowing the rotating assembly to be easily repaired or quickly replaced with a new ready to drop in assembly.

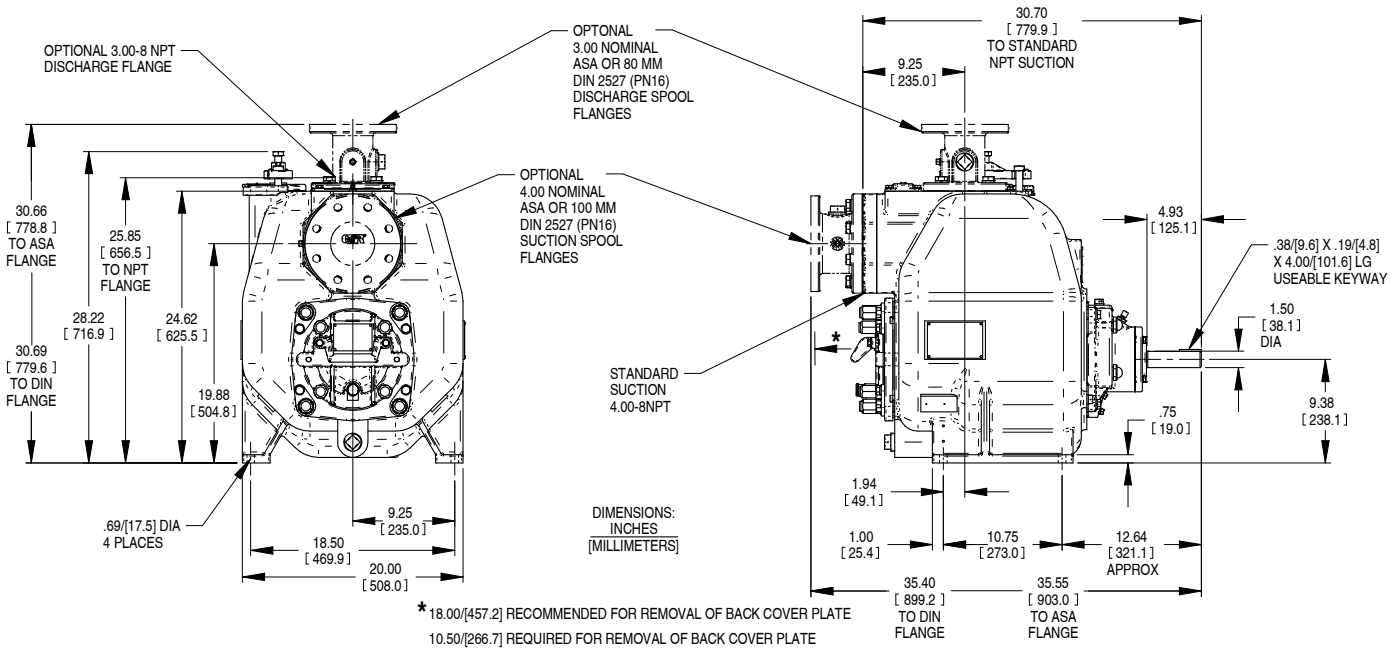
Upgradeable - The patented UltraMate® can be paired with the Ultra V Series pump when system requirements exceed the Ultra V's exceptional performance range. By adding the UltraMate unit directly to the Ultra V through an innovative transition chamber, maximum pressure is increased up to three times the pressure of traditional solids-handling, self-priming, single stage pumps.

Externally removeable suction check valve - A positive sealing, externally removeable suction check valve is standard on Ultra V Series® models. This eliminates the need to disconnect any piping for inspection or replacement. The check valve has a blowout center that limits excessive volute pressure, protecting the pump.

APPROXIMATE DIMENSIONS AND WEIGHTS

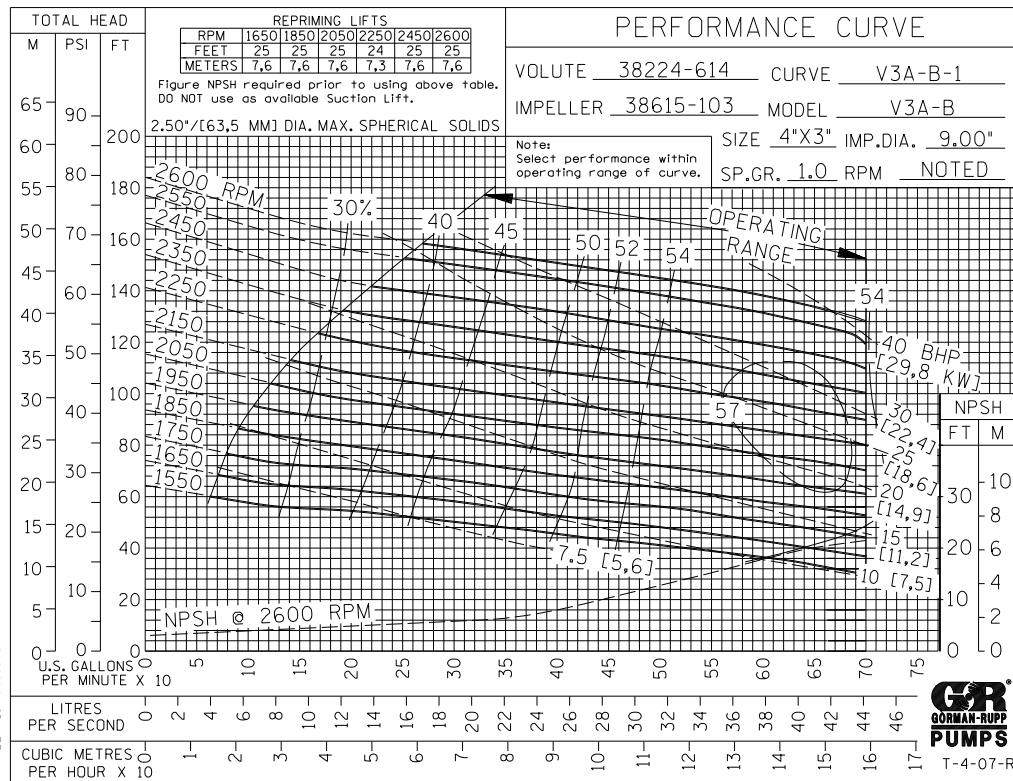
NET WEIGHT	635 LBS. (288 KG.)*
SHIPPING WEIGHT	685 LBS. (311 KG.)*
EXPORT CRATE	13.5 CU. FT. (0,38 CU. M.)

**WEIGHTS DO NOT INCLUDE OPTIONAL FLANGE KITS.*

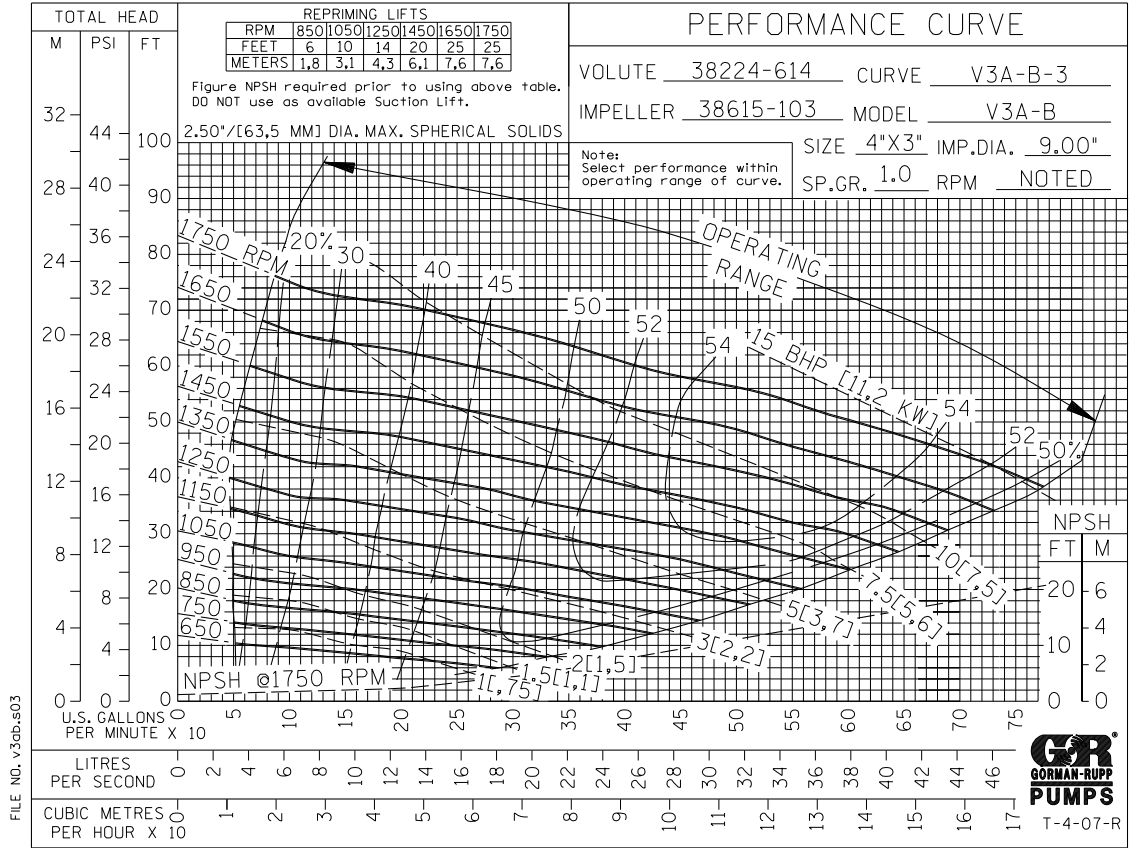


OPTIONAL SUCTION & DISCHARGE FLANGES SHOWN IN PHANTOM

60 HERTZ PERFORMANCE BASED ON WATER

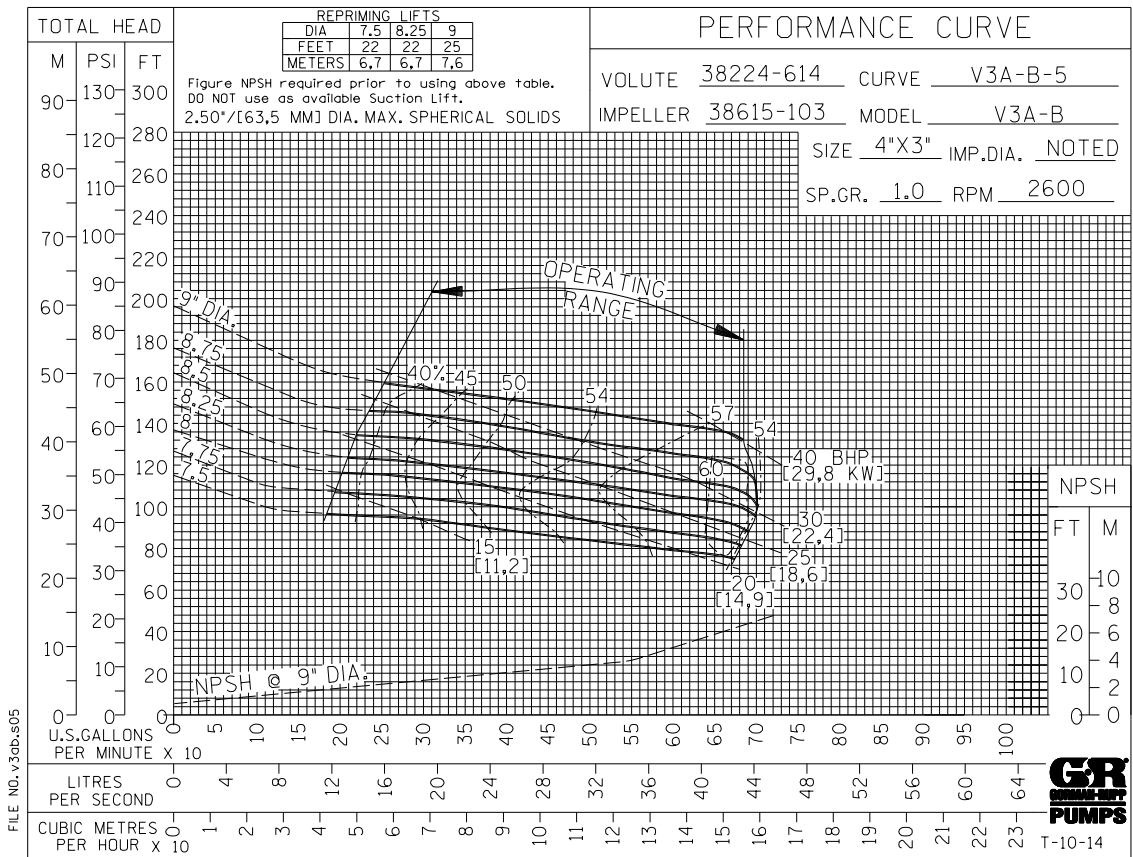


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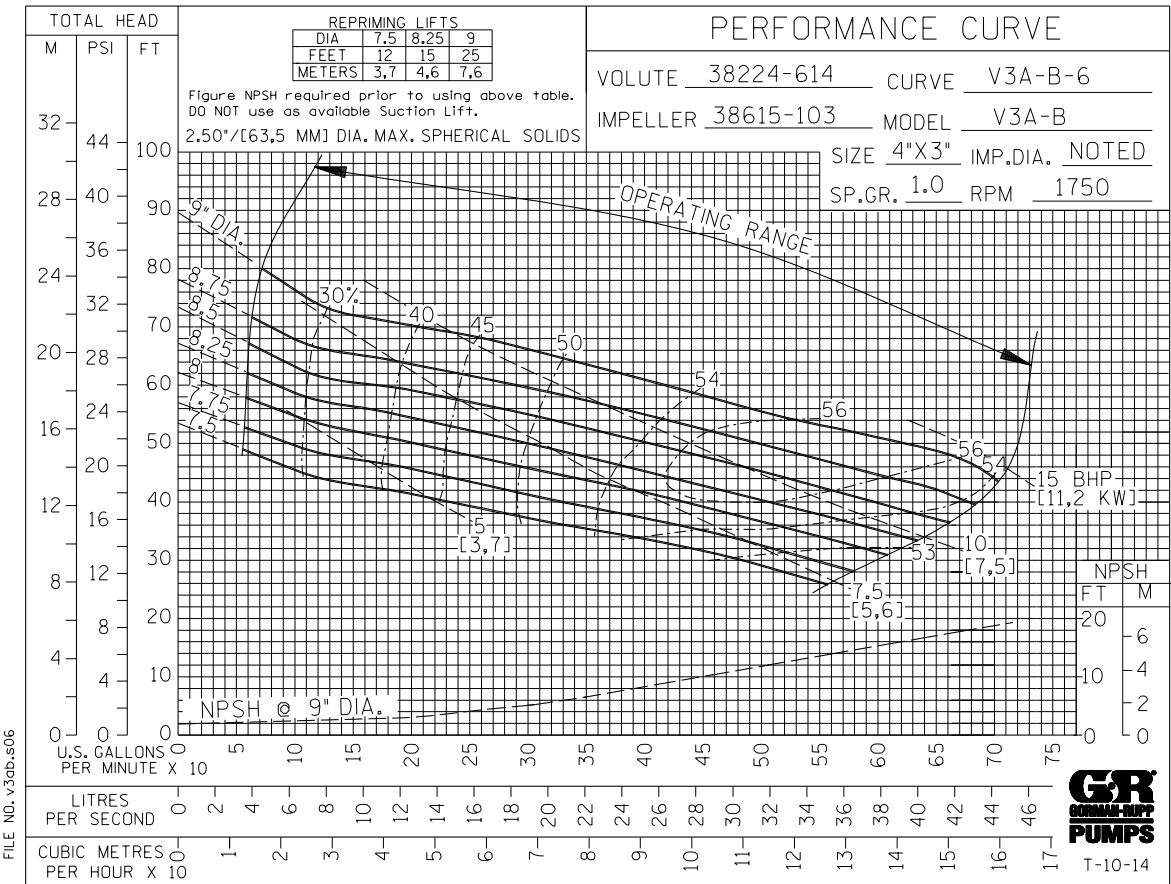
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60 HERTZ
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FOR REDUCED
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